

HYBRID DIGITAL WATERMARKING FOR VIDEO AUTHENTICATION

Abstract of the Disclosure

A hybrid digital watermarking system for video authentication includes an
5 authenticated acquisition subsystem for digitally watermarking video data and a
video management subsystem in signal communication with the authenticated
acquisition subsystem for verifying the digitally watermarked video data, where
the authenticated acquisition subsystem may include a watermarking device for
applying each of an identity signature and a control signature to the video data
10 within a hybrid digital watermark, and the hybrid digital watermark may achieve
progressively varying robustness by means of error-correcting signature coding
and/or rate-distortion guided bit embedding.